

· Fri May 11 16:44:21 2001

us-09-030-061-7.rsp

Page 7




```

14 07-JUL-1998 (first entry)
XX
XX IFN-gamma inducing active protein.
XX
XX Interferon-gamma inducing precursor peptide, IFN-gamma:
XX Interleukin-1 beta-converting enzyme (ICE), 771-821, killer cell
XX antiviral agent; antitumor agent; immunoprotective agent; antileptin.
XX
XX Mammalian.
XX
XX Key: Location/Qualifiers
XX
XX Misc. Difference: 78
XX /Label: 10, 11a
XX
XX F06210-5-AZ.
XX
XX 28-JAN-1998.
XX
XX 18-JUL-1997: 97EP-0305376.
XX
XX 31-JAN-1997: 97JP-0043474.
XX 25-JUL-1997: 96JP-0213257.
XX
XX (HAYB.) HAYASHIHARA SEIJI, KAWAKU,
XX
XX Kurimoto M., Tanimoto T.
XX
XX WP1: 1998-088847/09.
XX N-PSBR: V189.6.
XX
XX Conversion of Interferon Inducing Polypeptide Precursor to active
XX polypeptide: comprises use of Interleukin-1 beta-converting enzyme,
XX used for, e.g., enhancing cytotoxicity by killer cells.
XX
XX Claim 5: Page 15: 18pp: English.
XX
XX This is the amino acid sequence for the interferon-gamma (IFN-gamma)
XX inducing active protein which is cleaved to form the active mature
XX protein when it is in contact with interleukin-1 beta-converting
XX enzyme (ICE). The polypeptide is used for inducing, e.g., production
XX of IFN-gamma, a useful biologically active substance, enhancing
XX cytotoxicity by, and inducing the formation of killer cells. The
XX polypeptide may potentially be used as an antiviral, antitumor and
XX immunoprotective agent and as an antileptin.
XX
XX Sequence: 157 AA:

```

```

Query Match: 95.48, Score: 811, 14 19: Length: 157:
Best local similarity: 99.48: from: No. 2: loc-83:
Matches: 156: Descriptive: 0: Mismatches: 1: Indels: 0: Gaps: 0:
CY 1 YPKLPSKTVPRNENYVILNENRQPEPMRQSTQPPVARETTEGSEYKQVPEPR 60
DB 1 YPKLESKTSPTNENHAYHVFHNFPRFQKQASPTDQPTTQPEYKASPTTAM 60
XX
XX 61 AVTLNKKKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLL 120
DB 61 AVTLNKKKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLLKLL 120
XX
XX 121 ERYPTATKRLKRLKLLKRLKRLKRLKRLKRLKRLKRLKRLKRLKRLKRLKRL 157
DB 121 ERYPTATKRLKRLKLLKRLKRLKRLKRLKRLKRLKRLKRLKRLKRLKRLKRL 157

```

Search completed: May 11, 2001, 16:47:20
 Job time: 47 sec



1. NAME: **JOHN**
 2. ADDRESS: **100**
 3. CITY: **NEW YORK**
 4. STATE: **NY**
 5. ZIP: **10001**
 6. PHONE: **212-123-4567**
 7. FAX: **212-123-4568**
 8. E-MAIL: **JOHN@EXAMPLE.COM**
 9. OCCUPATION: **SOFTWARE ENGINEER**
 10. EDUCATION: **B.S. COMPUTER SCIENCE**
 11. EMPLOYER: **EXAMPLE CORP.**
 12. START DATE: **01/01/2000**
 13. END DATE: **12/31/2000**
 14. REASON: **RETIRED**
 15. COMMENTS: **SEE YOU LATER**
 16. SIGNATURE: **JOHN**
 17. DATE: **01/01/2001**
 18. TIME: **10:00 AM**
 19. LOCATION: **NEW YORK**
 20. STATUS: **ACTIVE**
 21. NOTES: **SEE YOU LATER**
 22. CONTACT: **JOHN**
 23. PHONE: **212-123-4567**
 24. FAX: **212-123-4568**
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 168. COMMENTS: **SEE YOU LATER**
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 179. OCCUPATION: **SOFTWARE ENGINEER**
 180. EDUCATION: **B.S. COMPUTER SCIENCE**
 181. EMPLOYER: **EXAMPLE CORP.**
 182. START DATE: **01**

[illegible][illegible]

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0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255	0256	0257	0258	0259	0260	0261	0262	0263	0264	0265	0266	0267	0268	026

PERSON 1
 DOB: 08/09/66, GOLA
 Sequence: 2, Affiliation: 0, 05/08/00, GOLA
 Country: N, 05/06/63
 CURRENT INFORMATION:
 AFFILIANT: ENRIQUE, LUIS
 AFFILIANT: ENRIQUE, MARIO
 TITLE: INVARIANT, Position: R, Position: POLITICAL
 NUMBER OF SPOUSES: 0
 CURRENT INFORMATION:
 ADDRESS: HOWAY AND, NE MARK
 STREET: 419 South Street, N.W., Suite 300
 City: Washington
 STATE: D.C.
 Country: USA
 ZIP: 20004
 CURRENT STATUS: E, E
 MEDIUM TYPE: floppy disk
 COMMENTS: 100% compatible
 CONTACT METHOD: 1, 1, 02/01/00
 SOFTWARE: 100% in 100% version 1.0
 CURRENT AFFILIATION DATA:
 AFFILIANT NUMBER: 05/06/66, GOLA
 AFFILIANT: 08/01/1997
 PREVIOUS AFFILIATION DATA:
 AFFILIANT NUMBER: 05/06/66/1996
 AFFILIANT: 08/01/1996
 PREVIOUS AFFILIATION DATA:
 AFFILIANT NUMBER: 05/06/66/1997
 AFFILIANT: 08/01/1997

Fri May 11 16:44:19 2001

us-09-030-061-6.rai

Page 9



1. A. 1000 0000 1004

2. A. 1000 0000 1004

3. A. 1000 0000 1004

4. A. 1000 0000 1004

5. A. 1000 0000 1004

6. A. 1000 0000 1004

7. A. 1000 0000 1004

8. A. 1000 0000 1004

9. A. 1000 0000 1004

10. A. 1000 0000 1004

11. A. 1000 0000 1004

12. A. 1000 0000 1004

13. A. 1000 0000 1004

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16. A. 1000 0000 1004

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18. A. 1000 0000 1004

19. A. 1000 0000 1004

20. A. 1000 0000 1004

21. A. 1000 0000 1004

22. A. 1000 0000 1004

23. A. 1000 0000 1004

24. A. 1000 0000 1004

25. A. 1000 0000 1004

26. A. 1000 0000 1004

27. A. 1000 0000 1004

28. A. 1000 0000 1004

29. A. 1000 0000 1004

30. A. 1000 0000 1004

31. A. 1000 0000 1004

32. A. 1000 0000 1004

33. A. 1000 0000 1004

34. A. 1000 0000 1004

35. A. 1000 0000 1004

36. A. 1000 0000 1004

37. A. 1000 0000 1004

38. A. 1000 0000 1004

Fri May 11 16:44:19 2001

us-09-030-061-6.rsp

Page 10

[illegible][illegible]

[illegible][illegible]

Fri May 11 16:44:20 2001

us-09-030-061-6.rsp

Genome version 4.5
Copyright (c) 1993 - 2000 Genome Research Ltd.

EM protein - protein search, using SW model

Run on: May 11, 2001, 16:42:20, Search time 31.48 seconds

(without alignments)
288,759 Matches with update/acc

Title: 08-09-043 061 7

Portlet score: 412

Sequence: 1 PEPPIETAVIETWEDGYV.....KCEETKRVETLLENG 155

Scoring table:

Gapop 10.0, Gapext 0.5

Searched: 40729 seqs, 52153225 residues

Minimum hit seq length: 0

Maximum PE seq length: 20000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: A:mouse14401

1	08-09-043 061 7	H.2A.000001	151
2	08-09-043 061 7	H.2A.000001	151
3	08-09-043 061 7	H.2A.000001	151
4	08-09-043 061 7	H.2A.000001	151
5	08-09-043 061 7	H.2A.000001	151
6	08-09-043 061 7	H.2A.000001	151
7	08-09-043 061 7	H.2A.000001	151
8	08-09-043 061 7	H.2A.000001	151
9	08-09-043 061 7	H.2A.000001	151
10	08-09-043 061 7	H.2A.000001	151
11	08-09-043 061 7	H.2A.000001	151
12	08-09-043 061 7	H.2A.000001	151
13	08-09-043 061 7	H.2A.000001	151
14	08-09-043 061 7	H.2A.000001	151
15	08-09-043 061 7	H.2A.000001	151
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18	08-09-043 061 7	H.2A.000001	151
19	08-09-043 061 7	H.2A.000001	151
20	08-09-043 061 7	H.2A.000001	151
21	08-09-043 061 7	H.2A.000001	151
22	08-09-043 061 7	H.2A.000001	151

Prod. No. is the number of results produced by chance. The score distribution is equal to the score of the result being produced and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	812	100.0	157	19	W77078
2	612	100.0	157	21	V57772
3	812	100.0	180	19	M48960
4	806	99.3	157	17	P66505
5	806	99.3	157	17	P66506
6	806	99.3	157	18	M15704
7	806	99.3	157	18	M24262
8	806	99.3	157	19	M27159
9	806	99.3	157	20	M36811
10	806	99.3	157	20	M36811
11	806	99.3	157	21	M44558

12	806	99.3	157	21	V53005
13	806	99.3	157	19	M27090
14	806	99.3	157	19	M27090
15	806	99.3	157	19	M27090
16	806	99.3	157	19	M27090
17	74225	91.4	157	19	M53282
18	641	77.7	157	19	M53282
19	617	66.1	157	21	V58241
20	626	64.8	157	19	M77084
21	626	64.8	157	19	M77084
22	626	64.8	157	19	M77084
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27	626	64.8	157	19	M77084
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33	617	64.7	157	19	M77084
34	617	64.7	157	19	M77084
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44	616	64.5	157	20	M48964
45	616	64.5	157	20	M48964

RESULTS

1	W77078	Mouse Interleukin-18
2	V57772	Human Interleukin-18
3	M48960	Mouse Interleukin-18
4	P66505	Mouse Interleukin-18
5	P66506	Mouse Interleukin-18
6	M15704	Human Interleukin-18
7	M24262	Human Interleukin-18
8	M27159	Human Interleukin-18
9	M36811	Human Interleukin-18
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11	M44558	Human Interleukin-18
12	V53005	Human Interleukin-18
13	M27090	Human Interleukin-18
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45	M48964	Human Interleukin-18

PH EP74507.A2.
 XX 26-JAN-2000.
 XX 24-JUN-1999: 99EP-0394777.
 XX 24-JUN-1998: 98JP-0177580.
 PR 12-DEC-1998: 98JP-0299344.
 PR 22-DEC-1998: 98JP-0365023.
 XX (HAYB.) HAYASHIMAWA SEIICHIRO KAKAKU.
 XX Nishida Y., Obara T., Tanimoto T., Kurimoto M.
 UR WPI: 2000-119241/211.
 XX New artificiality produced peptide for neutralizing biological activity
 PT of Interleukin 18, useful for treating and preventing immunopathoses,
 PI inflammatory disorders and autoimmune diseases.
 XX Disclosure: Page 27: 32pp; English.
 CC The present sequence is mouse monoclonal Interleukin-18. This can comprise
 CC a part or the whole of the variable region in anti-Interleukin-18
 CC antibody for neutralizing Interleukin-18. This is useful for treating
 CC and preventing immunopathoses, inflammatory disorders and autoimmune
 CC diseases which are caused by excessive immunoreaction. The protein has
 CC anti-allergic, anti-inflammatory, immunosuppressive, hematopoietic,
 CC leukocytopoietic, antiallergic, antipruritic and hepatoprotection improving
 CC activities.
 XX Sequence: 157 AA.
 SQ
 Query Match 99.48; Score 806; DR 21; Length 157;
 Best Local Similarity: 99.48; Pred. No. 1,20 75;
 Matches: 156; Conservative 0; Mismatches 1; Gaps 0.
 QY 1 MPEKHTAVFENFNGVFEKPEVFETMTGFSASPEFHTIPVNGEVEKGA 60
 DB 1 IIRHLLHLLAVLNQDQYFDKRPETGEMDIDIPSEPPYRITIPYKASQVETL 60
 QY 61 VTIQVTFEMLLESEETSEETFEHLLDAASGLA2FVYDREHTESSLEEC 120
 DB 61 IITSEVLEKATKSLKSLSTSEDEPFLVH44444444444444444444 120
 QY 121 IIVAVGFEATKLEKKECHLNSVMTLENEHGF 157
 DB 121 HLLHKKLHLLVRLIKKLVKPKKPKSVMTLLHLLHGS 157
 RESULT 12
 Y53905 Y53905 standard, 157 AA.
 AC Y53905.
 XX 13-MAR-2000 (first entry)
 DE Amino acid sequence of a protein that induces TCR gamma production
 XX Messer, Interferon gamma production: TCR gamma, interleukin-18, and
 XX adjuvantly immunoregulatory; antigen mitogen, interleukin-18,
 XX TCR gamma, interferon gamma, interleukin-18, and interleukin-18,
 XX blood platelet enhancing agent, hepatitis, herpes syndrome, condyloma;
 KW AIDS; bacterial diseases; candidiasis; malaria; solid malignant tumour;
 KW renal cancer; mycosis tumours; chronic granulomatous diseases;
 KW blood cell malignant tumour; adult T cell leukaemia;
 KW chronic myeloid leukaemia; malignant leukaemia; immune diseases;
 KW allergy; Rheumatism.
 XX Mus SP.

PH EP74507.A2.
 XX 26-JAN-2000.
 XX 24-JUN-1999: 99EP-0394777.
 XX 24-JUN-1998: 98JP-0177580.
 PR 12-DEC-1998: 98JP-0299344.
 PR 22-DEC-1998: 98JP-0365023.
 XX (HAYB.) HAYASHIMAWA SEIICHIRO KAKAKU.
 XX Nishida Y., Obara T., Tanimoto T., Kurimoto M.
 UR WPI: 2000-119241/211.
 XX New artificiality produced peptide for neutralizing biological activity
 PT of Interleukin 18, useful for treating and preventing immunopathoses,
 PI inflammatory disorders and autoimmune diseases.
 XX Disclosure: Page 27: 32pp; English.
 CC The present sequence represents a murine protein that induces Interleukin
 CC (ILN)-gamma production by immunocompetent cells. ILN-gamma is a
 CC protein that has antitumor, antipruritic and immunoregulatory activities,
 CC and is produced by immunocompetent cells stimulated with antigens or
 CC mitogens. A probe derived from the cDNA of the present sequence was used
 CC to isolate the corresponding human protein from human liver cells. The
 CC protein of the invention is used to treat TCR gamma compatible diseases,
 CC and also have use as an antiviral agent, antibacterial agent, and tumour
 CC agent, immunoregulatory agent and blood platelet enhancing agent.
 CC Diseases which can be treated with the protein include viral diseases
 CC such as hepatitis, herpes syndrome, condyloma, and AIDS; bacterial
 CC diseases such as candidiasis and malaria; solid malignant tumours such
 CC as renal cancer, mycosis tumours, and chronic granulomatous diseases;
 CC blood cell malignant tumours such as adult T cell leukaemia, chronic
 CC myelogenous leukaemia, and malignant leukaemia; and immune diseases
 CC such as allergy and rheumatism.
 XX Sequence: 157 AA.
 SQ
 Query Match 99.48; Score 806; DR 21; Length 157;
 Best Local Similarity: 99.48; Pred. No. 1,20 75;
 Matches: 156; Conservative 0; Mismatches 1; Gaps 0.
 QY 1 MPEKHTAVFENFNGVFEKPEVFETMTGFSASPEFHTIPVNGEVEKGA 60
 DB 1 IIRHLLHLLAVLNQDQYFDKRPETGEMDIDIPSEPPYRITIPYKASQVETL 60
 QY 61 VTIQVTFEMLLESEETSEETFEHLLDAASGLA2FVYDREHTESSLEEC 120
 DB 61 IITSEVLEKATKSLKSLSTSEDEPFLVH44444444444444444444 120
 QY 121 IIVAVGFEATKLEKKECHLNSVMTLENEHGF 157
 DB 121 HLLHKKLHLLVRLIKKLVKPKKPKSVMTLLHLLHGS 157
 RESULT 13
 W77090 W77090 standard, 157 AA.
 AC W77090.
 XX 16-NOV-1998 (first entry)



1 SOUTH
2 1. NAME: [REDACTED]
3 2. DATE OF BIRTH: [REDACTED]
4 3. PLACE OF BIRTH: [REDACTED]
5 4. NATIONALITY: [REDACTED]
6 5. RELIGION: [REDACTED]
7 6. OCCUPATION: [REDACTED]
8 7. EDUCATION: [REDACTED]
9 8. MARITAL STATUS: [REDACTED]
10 9. NUMBER OF CHILDREN: [REDACTED]
11 10. ADDRESS: [REDACTED]
12 11. TELEPHONE: [REDACTED]
13 12. FAX: [REDACTED]
14 13. E-MAIL: [REDACTED]
15 14. OTHER CONTACT INFORMATION: [REDACTED]
16 15. COMMENTS: [REDACTED]
17 16. REFERENCES: [REDACTED]
18 17. SIGNATURE: [REDACTED]
19 18. DATE: [REDACTED]
20 19. PLACE: [REDACTED]
21 20. OTHER: [REDACTED]

22 21. NAME: [REDACTED]
23 22. DATE OF BIRTH: [REDACTED]
24 23. PLACE OF BIRTH: [REDACTED]
25 24. NATIONALITY: [REDACTED]
26 25. RELIGION: [REDACTED]
27 26. OCCUPATION: [REDACTED]
28 27. EDUCATION: [REDACTED]
29 28. MARITAL STATUS: [REDACTED]
30 29. NUMBER OF CHILDREN: [REDACTED]
31 30. ADDRESS: [REDACTED]
32 31. TELEPHONE: [REDACTED]
33 32. FAX: [REDACTED]
34 33. E-MAIL: [REDACTED]
35 34. OTHER CONTACT INFORMATION: [REDACTED]
36 35. COMMENTS: [REDACTED]
37 36. REFERENCES: [REDACTED]
38 37. SIGNATURE: [REDACTED]
39 38. DATE: [REDACTED]
40 39. PLACE: [REDACTED]
41 40. OTHER: [REDACTED]

42 41. NAME: [REDACTED]
43 42. DATE OF BIRTH: [REDACTED]
44 43. PLACE OF BIRTH: [REDACTED]
45 44. NATIONALITY: [REDACTED]
46 45. RELIGION: [REDACTED]
47 46. OCCUPATION: [REDACTED]
48 47. EDUCATION: [REDACTED]
49 48. MARITAL STATUS: [REDACTED]
50 49. NUMBER OF CHILDREN: [REDACTED]
51 50. ADDRESS: [REDACTED]
52 51. TELEPHONE: [REDACTED]
53 52. FAX: [REDACTED]
54 53. E-MAIL: [REDACTED]
55 54. OTHER CONTACT INFORMATION: [REDACTED]
56 55. COMMENTS: [REDACTED]
57 56. REFERENCES: [REDACTED]
58 57. SIGNATURE: [REDACTED]
59 58. DATE: [REDACTED]
60 59. PLACE: [REDACTED]
61 60. OTHER: [REDACTED]

62 61. NAME: [REDACTED]
63 62. DATE OF BIRTH: [REDACTED]
64 63. PLACE OF BIRTH: [REDACTED]
65 64. NATIONALITY: [REDACTED]
66 65. RELIGION: [REDACTED]
67 66. OCCUPATION: [REDACTED]
68 67. EDUCATION: [REDACTED]
69 68. MARITAL STATUS: [REDACTED]
70 69. NUMBER OF CHILDREN: [REDACTED]
71 70. ADDRESS: [REDACTED]
72 71. TELEPHONE: [REDACTED]
73 72. FAX: [REDACTED]
74 73. E-MAIL: [REDACTED]
75 74. OTHER CONTACT INFORMATION: [REDACTED]
76 75. COMMENTS: [REDACTED]
77 76. REFERENCES: [REDACTED]
78 77. SIGNATURE: [REDACTED]
79 78. DATE: [REDACTED]
80 79. PLACE: [REDACTED]
81 80. OTHER: [REDACTED]

LENGTH: 199 amino acids
TYPE: amino acid
STRANDINESS: single

MOLECULAR WT: 100,000
EXAMINENT Yr: 1997
INSTRUMENT: 813-4

15, 99; Score 129; Ds 4; Length 25

GenScore version 4.5
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OM protein - protein search, using sw model

Run on: May 11, 2001, 16:49:07 : Search time 13.79 seconds

(with all attributes)
490,284 Million cell updates/sec

Hit list:

Perfect score: 95.09-040-061-7

Sequence:

Scoring table:

Search: 9435 seqs, 4425486 residues

Total number of hits satisfying chosen parameters: 9435

Minimum hit seq length: 2

Maximum hit seq length: 25000000

Post-processing: Minimum March 98
Maximum March 1998
Listing first 45 summaries

Database: SwissProt_99*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	Hit ID	Description
1	81.2	10.0	192	1	1118_MOUSE	F7C307. Ratios
2	74.25	9.4	194	1	1118_RAT	P97536. Ratios
3	537	9.4	194	1	1118_HORSE	Q9XSP7. Equus
4	520	9.4	194	1	1118_HUMAN	Q14176. Homo
5	516	9.4	194	1	1118_CANINA	Q9XSP7. Equus
6	515	9.4	194	1	1118_PIG	Q19073. Sus
7	84.5	10.3	803	1	1118_MOUSE	P43864. haemophilus
8	81	10.0	297	1	1118_PIG	P22986. Sus
9	80.5	9.9	526	1	1118_MOUSE	Q90362. Saccharomy
10	80	9.9	1196	1	1118_MOUSE	P45021. Equus
11	79.5	9.8	167	1	1118_MOUSE	Q50273. Equus
12	79	9.7	266	1	1118_MOUSE	P09428. Sus
13	78.5	9.7	270	1	1118_MOUSE	P01582. Sus
14	78.5	9.7	698	1	1118_MOUSE	P08243. Sus
15	77.5	9.5	470	1	1118_PIG	P18430. Sus
16	77.5	9.5	439	1	1118_PIG	P58221. Sus
17	77	9.5	885	1	1118_MOUSE	P08759. Sus
18	76.5	9.4	621	1	1118_MOUSE	P56116. Sus
19	76.5	9.4	695	1	1118_MOUSE	P45306. haemophilus
20	75	9.2	266	1	1118_MOUSE	P01582. Sus
21	75	9.2	269	1	1118_MOUSE	P19000. Sus
22	75	9.2	269	1	1118_MOUSE	P51403. Sus
23	75	9.2	621	1	1118_MOUSE	P08759. Sus
24	74.5	9.2	706	1	1118_MOUSE	P29182. Sus
25	74	9.1	268	1	1118_MOUSE	P01582. Sus
26	74	9.1	269	1	1118_MOUSE	P01582. Sus
27	74	9.1	624	1	1118_MOUSE	P08759. Sus
28	74	9.1	624	1	1118_MOUSE	P08759. Sus
29	74	9.1	659	1	1118_MOUSE	P08759. Sus
30	74	9.1	872	1	1118_MOUSE	P08759. Sus
31	74	9.1	1139	1	1118_MOUSE	P08759. Sus
32	74.5	9.1	1010	1	1118_MOUSE	P08759. Sus
33	73	9.0	270	1	1118_MOUSE	P01582. Sus

34	73	9.0	94	1	1118_MOUSE	P44973. haemophilus
35	72.5	8.9	589	1	1118_MOUSE	P08759. Sus
36	72.5	8.9	589	1	1118_MOUSE	P08759. Sus
37	72.5	8.9	589	1	1118_MOUSE	P08759. Sus
38	72	8.9	511	1	1118_MOUSE	P08759. Sus
39	72	8.9	706	1	1118_MOUSE	P29182. Sus
40	72	8.9	706	1	1118_MOUSE	P29182. Sus
41	71.5	8.8	706	1	1118_MOUSE	P29182. Sus
42	71.5	8.8	706	1	1118_MOUSE	P29182. Sus
43	71	8.7	266	1	1118_MOUSE	P01582. Sus
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ALTERNATIVES

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[illegible]

[illegible]

[illegible][illegible][illegible]

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[illegible]

THE UNIVERSITY OF CHICAGO

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	YH009	MECLA		
	YH011	MECLA		
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	YH099	MECLA		
	YH100	MECLA		

101 of N-V 19⁺ (red) 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1050, 1100, 1150, 1200, 1250, 1300, 1350, 1400, 1450, 1500, 1550, 1600, 1650, 1700, 1750, 1800, 1850, 1900, 1950, 2000, 2050, 2100, 2150, 2200, 2250, 2300, 2350, 2400, 2450, 2500, 2550, 2600, 2650, 2700, 2750, 2800, 2850, 2900, 2950, 3000, 3050, 3100, 3150, 3200, 3250, 3300, 3350, 3400, 3450, 3500, 3550, 3600, 3650, 3700, 3750, 3800, 3850, 3900, 3950, 4000, 4050, 4100, 4150, 4200, 4250, 4300, 4350, 4400, 4450, 4500, 4550, 4600, 4650, 4700, 4750, 4800, 4850, 4900, 4950, 5000, 5050, 5100, 5150, 5200, 5250, 5300, 5350, 5400, 5450, 5500, 5550, 5600, 5650, 5700, 5750, 5800, 5850, 5900, 5950, 6000, 6050, 6100, 6150, 6200, 6250, 6300, 6350, 6400, 6450, 6500, 6550, 6600, 6650, 6700, 6750, 6800, 6850, 6900, 6950, 7000, 7050, 7100, 7150, 7200, 7250, 7300, 7350, 7400, 7450, 7500, 7550, 7600, 7650, 7700, 7750, 7800, 7850, 7900, 7950, 8000, 8050, 8100, 8150, 8200, 8250, 8300, 8350, 8400, 8450, 8500, 8550, 8600, 8650, 8700, 8750, 8800, 8850, 8900, 8950, 9000, 9050, 9100, 9150, 9200, 9250, 9300, 9350, 9400, 9450, 9500, 9550, 9600, 9650, 9700, 9750, 9800, 9850, 9900, 9950, 10000, 10050, 10100, 10150, 10200, 10250, 10300, 10350, 10400, 10450, 10500, 10550, 10600, 10650, 10700, 10750, 10800, 10850, 10900, 10950, 11000, 11050, 11100, 11150, 11200, 11250, 11300, 11350, 11400, 11450, 11500, 11550, 11600, 11650, 11700, 11750, 11800, 11850, 11900, 11950, 12000, 12050, 12100, 12150, 12200, 12250, 12300, 12350, 12400, 12450, 12500, 12550, 12600, 12650, 12700, 12750, 12800, 12850, 12900, 12950, 13000, 13050, 13100, 13150, 13200, 13250, 13300, 13350, 13400, 13450, 13500, 13550, 13600, 13650, 13700, 13750, 13800, 13850, 13900, 13950, 14000, 14050, 14100, 14150, 14200, 14250, 14300, 14350, 14400, 14450, 14500, 14550, 14600, 14650, 14700, 14750, 14800, 14850, 14900, 14950, 15000, 15050, 15100, 15150, 15200, 15250, 15300, 15350, 15400, 15450, 15500, 15550, 15600, 15650, 15700, 15750, 15800, 15850, 15900, 15950, 16000, 16050, 16100, 16150, 16200, 16250, 16300, 16350, 16400, 16450, 16500, 16550, 16600, 16650, 16700, 16750, 16800, 16850, 16900, 16950, 17000, 17050, 17100, 17150, 17200, 17250, 17300, 17350, 17400, 17450, 17500, 17550, 17600, 17650, 17700, 17750, 17800, 17850, 17900, 17950, 18000, 18050, 18100, 18150, 18200, 18250, 18300, 18350, 18400, 18450, 18500, 18550, 18600, 18650, 18700, 18750, 18800, 18850, 18900, 18950, 19000, 19050, 19100, 19150, 19200, 19250, 19300, 19350, 19400, 19450, 19500, 19550, 19600, 19650, 19700, 19750, 19800, 19850, 19900, 19950, 20000, 20050, 20100, 20150, 20200, 20250, 20300, 20350, 20400, 20450, 20500, 20550, 20600, 20650, 20700, 20750, 20800, 20850, 20900, 20950, 21000, 21050, 21100, 21150, 21200, 21250, 21300, 21350, 21400, 21450, 21500, 21550, 21600, 21650, 21700, 21750, 21800, 21850, 21900, 21950, 22000, 22050, 22100, 22150, 22200, 22250, 22300, 22350, 22400, 22450, 22500, 22550, 22600, 22650, 22700, 22750, 22800, 22850, 22900, 22950, 23000, 23050, 23100, 23150, 23200, 23250, 23300, 23350, 23400, 23450, 23500, 23550, 23600, 23650, 23700, 23750, 23800, 23850, 23900, 23950, 24000, 24050, 24100, 24150, 24200, 24250, 24300, 24350, 24400, 24450, 24500, 24550, 24600, 24650, 24700, 24750, 24800, 24850, 24900, 24950, 25000, 25050, 25100, 25150, 25200, 25250, 25300, 25350, 25400, 25450, 25500, 25550, 25600, 25650, 25700, 25750, 25800, 25850, 25900, 25950, 26000, 26050, 26100, 26150, 26200, 26250, 26300, 26350, 26400, 26450, 26500, 26550, 26600, 26650, 26700, 26750, 26800, 26850, 26900, 26950, 27000, 27050, 27100, 27150, 27200, 27250, 27300, 27350, 27400, 27450, 27500, 27550, 27600, 27650, 27700, 27750, 27800, 27850, 27900, 27950, 28000, 28050, 28100, 28150, 28200, 28250, 28300, 28350, 28400, 28450, 28500, 28550, 28600, 28650, 28700, 28750, 28800, 28850, 28900, 28950, 29000, 29050, 29100, 29150, 29200, 29250, 29300, 29350, 29400, 29450, 29500, 29550, 29600, 29650, 29700, 29750, 29800, 29850, 29900, 29950, 30000, 30050, 30100, 30150, 30200, 30250, 30300, 30350, 30400, 30450, 30500, 30550, 30600, 30650, 307

1. *Arthropoda*: Insects, Arachnida, Crustacea, Myriapoda.
 2. *Mollusca*: Bivalvia, Gastropoda, Nautilus.
 3. *Chordata*: Fish, Amphibia, Reptilia, Mammalia, Aves.
 4. *Platyhelminthes*: Trematodes, Cestodes, Monogeneans.
 5. *Nematoda*: Roundworms.
 6. *Cnidaria*: Jellyfish, Corals, Sea Anemones.
 7. *Echinodermata*: Starfish, Sea Urchins, Brittle Stars.
 8. *Ctenophora*: Comb Jellies.
 9. *Porifera*: Sponges.
 10. *Phylum X*: (Placeholder for additional phyla).

[illegible]

Case	Number of Matches	Similarity Coefficient	Number of Matches	Similarity Coefficient	Number of Matches	Similarity Coefficient
1	1	0.00	1	0.00	1	0.00
2	1	0.00	1	0.00	1	0.00
3	1	0.00	1	0.00	1	0.00
4	1	0.00	1	0.00	1	0.00
5	1	0.00	1	0.00	1	0.00
6	1	0.00	1	0.00	1	0.00
7	1	0.00	1	0.00	1	0.00
8	1	0.00	1	0.00	1	0.00
9	1	0.00	1	0.00	1	0.00
10	1	0.00	1	0.00	1	0.00
11	1	0.00	1	0.00	1	0.00
12	1	0.00	1	0.00	1	0.00
13	1	0.00	1	0.00	1	0.00
14	1	0.00	1	0.00	1	0.00
15	1	0.00	1	0.00	1	0.00
16	1	0.00	1	0.00	1	0.00
17	1	0.00	1	0.00	1	0.00
18	1	0.00	1	0.00	1	0.00
19	1	0.00	1	0.00	1	0.00
20	1	0.00	1	0.00	1	0.00
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22	1	0.00	1	0.00	1	0.00
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39	1	0.00	1	0.00	1	0.00
40	1	0.00	1	0.00	1	0.00
41	1	0.00	1	0.00	1	0.00
42	1	0.00	1	0.00	1	0.00
43	1	0.00	1	0.00	1	0.00
44	1	0.00	1	0.00	1	0.00
45	1	0.00	1	0.00	1	0.00
46	1	0.00	1	0.00	1	0.00
47	1	0.00	1	0.00	1	0.00
48	1	0.00	1	0.00	1	0.00
49	1	0.00	1	0.00	1	0.00
50	1	0.00	1	0.00	1	0.00
51	1	0.00	1	0.00	1	0.00
52	1	0.00	1	0.00	1	0.00
53	1	0.00	1	0.00	1	0.00
54	1	0.00	1	0.00	1	0.00
55	1	0.00	1	0.00	1	0.00
56	1	0.00	1	0.00	1	0.00
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59	1	0.00	1	0.00	1	0.00
60	1	0.00	1	0.00	1	0.00
61	1	0.00	1	0.00	1</	

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A*	P07942B:				
D†	a1 MAN T33 (Bel., 19)	(corrected)			
D‡	a1 MAR 1989 (Bel., 10)	(last sequence updated)			
E§	40 MAY 2000 (Bel., 49)	(last annotation updated)			

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KN. *Comments from N.A.*
KX. *Metallurg* 38:1395-27. *Patent* 4,261,822.
M. *Journal of the Acids* (1955), 16, 365-490 (1956).
PA. *Journal of the Acids* (1955), 16, 365-490 (1956).
RE. *Journal of the Acids* (1955), 16, 365-490 (1956).
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RX. *Metallurg* 38:1395-27. *Patent* 4,261,822.
M. *Journal of the Acids* (1955), 16, 365-490 (1956).
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RX. *Metallurg* 38:1395-27. *Patent* 4,261,822.

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LB	182	VII	PISEIPI-FVSA	AMPIAPVITZET	001921171E
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